



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
401 M Street, S.W.
WASHINGTON, D.C. 20460

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DATA MATRIX

Date March 9, 2021	EPA Reg No./File Symbol 92694-6	Page 1 of 24
Applicant's/Registrant's Name & Address Gruhn Mill Crop Solutions, LLC 701 Fifth Avenue, Suite 6100 Seattle, WA 98104	Product Bifenthrin Technical MUP	
Ingredient Bifenthrin (CAS No.: 82657-04-3; Chemical Code: 128825)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
PRODUCT SPECIFIC DATA REQUIREMENTS					
830.1550	Product Identity and Composition	47902601	Gruhn Mill Crop Solutions, LLC	OWN	
		48167801	Gruhn Mill Crop Solutions, LLC	OWN	
		50484801	Gruhn Mill Crop Solutions, LLC	OWN	
		50484803	Gruhn Mill Crop Solutions, LLC	OWN	
		50484805	Gruhn Mill Crop Solutions, LLC	OWN	
		50737201	Gruhn Mill Crop Solutions, LLC	OWN	
		50784201	Gruhn Mill Crop Solutions, LLC	OWN	
830.1600	Description of Materials Used to Produce the Product	51466601	Gruhn Mill Crop Solutions, LLC	OWN	
		47902601	Gruhn Mill Crop Solutions, LLC	OWN	
		48167801	Gruhn Mill Crop Solutions, LLC	OWN	
		50484801	Gruhn Mill Crop Solutions, LLC	OWN	
		50484803	Gruhn Mill Crop Solutions, LLC	OWN	
		50484805	Gruhn Mill Crop Solutions, LLC	OWN	
		50737201	Gruhn Mill Crop Solutions, LLC	OWN	
830.1620	Description of the Production Process	50784201	Gruhn Mill Crop Solutions, LLC	OWN	
		51466601	Gruhn Mill Crop Solutions, LLC	OWN	
		47902601	Gruhn Mill Crop Solutions, LLC	OWN	
		48167801	Gruhn Mill Crop Solutions, LLC	OWN	
		50484801	Gruhn Mill Crop Solutions, LLC	OWN	
		50484803	Gruhn Mill Crop Solutions, LLC	OWN	
		50484805	Gruhn Mill Crop Solutions, LLC	OWN	
830.1650	Description of the Formulation Process	50737201	Gruhn Mill Crop Solutions, LLC	OWN	Not required
		50784201	Gruhn Mill Crop Solutions, LLC	OWN	
		51466601	Gruhn Mill Crop Solutions, LLC	OWN	
		47902601	Gruhn Mill Crop Solutions, LLC	OWN	
		48167801	Gruhn Mill Crop Solutions, LLC	OWN	
		50484801	Gruhn Mill Crop Solutions, LLC	OWN	
		50484803	Gruhn Mill Crop Solutions, LLC	OWN	

Signature 	Name and Title Ailis Gregory Regulatory Consultant	Date 3/9/2021
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Ingredient Bifenthrin (CAS No.: 82657-04-3; Chemical Code: 128825)					
830.1670	Discussion of Formation of Impurities	47902601 48167801 50484801 50484803 50484805 50737201 50784201 51466601	Gruhn Mill Crop Solutions, LLC Gruhn Mill Crop Solutions, LLC Gruhn Mill Crop Solutions, LLC Gruhn Mill Crop Solutions, LLC Gruhn Mill Crop Solutions, LLC Gruhn Mill Crop Solutions, LLC Gruhn Mill Crop Solutions, LLC Gruhn Mill Crop Solutions, LLC	OWN OWN OWN OWN OWN OWN OWN OWN	
830.1700	Preliminary Analysis	47902601 48167801 50484802 50484804 50484806 50737202 50784202 51466602	Gruhn Mill Crop Solutions, LLC Gruhn Mill Crop Solutions, LLC Gruhn Mill Crop Solutions, LLC Gruhn Mill Crop Solutions, LLC Gruhn Mill Crop Solutions, LLC Gruhn Mill Crop Solutions, LLC Gruhn Mill Crop Solutions, LLC Gruhn Mill Crop Solutions, LLC	OWN OWN OWN OWN OWN OWN OWN OWN	
830.1750	Certified Limits	47902601 48167801 50484801 50484803 50484805 50737201 50784201 51466601	Gruhn Mill Crop Solutions, LLC Gruhn Mill Crop Solutions, LLC Gruhn Mill Crop Solutions, LLC Gruhn Mill Crop Solutions, LLC Gruhn Mill Crop Solutions, LLC Gruhn Mill Crop Solutions, LLC Gruhn Mill Crop Solutions, LLC Gruhn Mill Crop Solutions, LLC	OWN OWN OWN OWN OWN OWN OWN OWN	

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Ingredient Bifenthrin (CAS No.: 82657-04-3; Chemical Code: 128825)					
830.1800	Enforcement Analytical Method	47902601 48167801 50484802 50484804 50484806 50737202 50784202 51466602	Gruhn Mill Crop Solutions, LLC Gruhn Mill Crop Solutions, LLC Gruhn Mill Crop Solutions, LLC Gruhn Mill Crop Solutions, LLC Gruhn Mill Crop Solutions, LLC Gruhn Mill Crop Solutions, LLC Gruhn Mill Crop Solutions, LLC Gruhn Mill Crop Solutions, LLC	OWN OWN OWN OWN OWN OWN OWN OWN	
830.6302	Color	47902603 48167803 50484809 50737203 50784204	Gruhn Mill Crop Solutions, LLC Gruhn Mill Crop Solutions, LLC Gruhn Mill Crop Solutions, LLC Gruhn Mill Crop Solutions, LLC Gruhn Mill Crop Solutions, LLC	OWN OWN OWN OWN OWN	
830.6303	Physical State	47902603 48167803 50484809 50737203 50784204	Gruhn Mill Crop Solutions, LLC Gruhn Mill Crop Solutions, LLC Gruhn Mill Crop Solutions, LLC Gruhn Mill Crop Solutions, LLC Gruhn Mill Crop Solutions, LLC	OWN OWN OWN OWN OWN	
830.6304	Odor	47902603 48167803 50484809 50737203 50784204	Gruhn Mill Crop Solutions, LLC Gruhn Mill Crop Solutions, LLC Gruhn Mill Crop Solutions, LLC Gruhn Mill Crop Solutions, LLC Gruhn Mill Crop Solutions, LLC	OWN OWN OWN OWN OWN	
830.6313	Stability to Normal and Elevated Temperatures, Metals and Metal Ions	47902603 48167803 50484809	Gruhn Mill Crop Solutions, LLC Gruhn Mill Crop Solutions, LLC Gruhn Mill Crop Solutions, LLC	OWN OWN OWN	

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Ingredient Bifenthrin (CAS No.: 82657-04-3; Chemical Code: 128825)					
830.6314	Oxidation / Reduction: Chemical Incompatibility	47902603 48167803 50484809 50737203 50784205	Gruhn Mill Crop Solutions, LLC Gruhn Mill Crop Solutions, LLC Gruhn Mill Crop Solutions, LLC Gruhn Mill Crop Solutions, LLC Gruhn Mill Crop Solutions, LLC	OWN OWN OWN OWN OWN	
830.6315	Flammability	47902603 48167803 50484809 50737203	Gruhn Mill Crop Solutions, LLC Gruhn Mill Crop Solutions, LLC Gruhn Mill Crop Solutions, LLC Gruhn Mill Crop Solutions, LLC	OWN OWN OWN OWN	
830.6316	Explosibility	47902603 48167803 50484809 50737203 50784206	Gruhn Mill Crop Solutions, LLC Gruhn Mill Crop Solutions, LLC Gruhn Mill Crop Solutions, LLC Gruhn Mill Crop Solutions, LLC Gruhn Mill Crop Solutions, LLC	OWN OWN OWN OWN OWN	
830.6317	Storage Stability	55033501	Gruhn Mill Crop Solutions, LLC	OWN	
830.6319	Miscibility				Not required
830.6320	Corrosion Characteristics	55033501	Gruhn Mill Crop Solutions, LLC	OWN	
830.6321	Dielectric Breakdown Voltage				Not required
830.7000	pH	47902603 48167803 50484809 50737203 50784207 51466603	Gruhn Mill Crop Solutions, LLC Gruhn Mill Crop Solutions, LLC Gruhn Mill Crop Solutions, LLC Gruhn Mill Crop Solutions, LLC Gruhn Mill Crop Solutions, LLC Gruhn Mill Crop Solutions, LLC	OWN OWN OWN OWN OWN OWN	
830.7050	UV / Visible Absorption	50541101	Gruhn Mill Crop Solutions, LLC	OWN	
830.7100	Viscosity				Not required
830.7200	Melting Point / Melting Range	47902603 48167803 50484809	Gruhn Mill Crop Solutions, LLC Gruhn Mill Crop Solutions, LLC Gruhn Mill Crop Solutions, LLC	OWN OWN OWN	

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Ingredient Bifenthrin (CAS No.: 82657-04-3; Chemical Code: 128825)

		50737203 50784208	Gruhn Mill Crop Solutions, LLC Gruhn Mill Crop Solutions, LLC	OWN OWN	
830.7220	Boiling Point / Boiling Range				Not required
830.7300	Density / Relative Density / Bulk Density	47902603 48167803 50484809 50737203 50784209 51466603	Gruhn Mill Crop Solutions, LLC Gruhn Mill Crop Solutions, LLC Gruhn Mill Crop Solutions, LLC Gruhn Mill Crop Solutions, LLC Gruhn Mill Crop Solutions, LLC Gruhn Mill Crop Solutions, LLC	OWN OWN OWN OWN OWN OWN	
830.7370	Dissociation Constants in Water	47902603 48167803 50484809	Gruhn Mill Crop Solutions, LLC Gruhn Mill Crop Solutions, LLC Gruhn Mill Crop Solutions, LLC	OWN OWN OWN	
830.7520	Particle Size, Fiber Length, and Diameter Distribution				Not required
830.7550	Partition Coefficient (n-octanol/water), Shake Flask Method				See 830.7570
830.7560	Partition Coefficient (n-octanol/water), Generator Method				See 830.7570
830.7570	Partition Coefficient (n-octanol/water), Estimation by Liquid Chromatography	50484810 50784210	Gruhn Mill Crop Solutions, LLC Gruhn Mill Crop Solutions, LLC	OWN OWN	
830.7840	Water Solubility: Column Elution Method, Shake Flask Method	50484811 50784211	Gruhn Mill Crop Solutions, LLC Gruhn Mill Crop Solutions, LLC	OWN OWN	
830.7860	Water Solubility: Generator Column Method				See 830.7840
830.7950	Vapor Pressure	50484812 50784212	Gruhn Mill Crop Solutions, LLC Gruhn Mill Crop Solutions, LLC	OWN OWN	
870.1100	Acute Oral Toxicity – rat	47902604	Gruhn Mill Crop Solutions, LLC	OWN	
870.1200	Acute Dermal Toxicity – rat	47902605 50784213	Gruhn Mill Crop Solutions, LLC Gruhn Mill Crop Solutions, LLC	OWN OWN	
870.1300	Acute Inhalation Toxicity – rat	47902606	Gruhn Mill Crop Solutions, LLC	OWN	
870.2400	Eye Irritation	47902607	Gruhn Mill Crop Solutions, LLC	OWN	
870.2500	Skin Irritation	47902608	Gruhn Mill Crop Solutions, LLC	OWN	

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Ingredient Bifenthrin (CAS No.: 82657-04-3; Chemical Code: 128825)					
870.2600	Skin Sensitization	47902609	Gruhn Mill Crop Solutions, LLC	OWN	
Bifenthrin GENERIC DATA REQUIREMENTS					
850.2100	Acute Avian Oral Toxicity	00132532 (AC 251727) 00132534 (AC 251727) 49163801	Bifenthrin Task Force	OLD OLD OWN	See endnote ¹
850.2200	Acute Avian Dietary Toxicity	00132533 (AC 251727) 00132535 (AC 251727)		OLD OLD	See endnote ²
850.2400	Wild Mammal Toxicity				Not required
850.2300	Avian Reproductive Toxicity	00163097 (AC 264644) 00163098 (AC 264644) 00163099 (AC 264645) 00163100 (AC 264645)		OLD OLD OLD OLD	See endnote ³
850.2500	Simulated or Actual Field Testing				Not required
850.1075	Freshwater Fish Toxicity	00163156 (AC 251727)		OLD	See endnote ⁴

Signature

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Gruhn Mill Crop Solutions, LLC 701 Fifth Avenue, Suite 6100 Seattle, WA 98104	Bifenthrin Technical MUP				
Ingredient Bifenthrin (CAS No.: 82657-04-3; Chemical Code: 128825)					
		00132536 (AC 251727)		OLD	
850.1010	Freshwater Invertebrate Toxicity	00132537 41156501		OLD OLD	See endnote ⁵
850.1025, 850.1035, 850.1045, 850.1055, 850.1075	Acute Toxicity Estuarine and Marine Organisms	00163101 (AC264646) 00163102 00163103 40383501 49060102	Bifenthrin Task Force	OLD OLD OLD OWN	See endnote ⁶
850.1300	Aquatic Invertebrate Life Cycle (Freshwater)	41156501		OLD	See endnote ⁷
850.1350	Aquatic Invertebrate Life Cycle (Saltwater)	49412102	Bifenthrin Task Force	OWN	See endnote ⁸
850.1400	Fish Early Life Stage (Freshwater)	49412101	Bifenthrin Task Force	OWN	See endnote ⁹
850.1400	Fish Early Life Stage (Saltwater)	49412101	Bifenthrin Task Force	OWN	See endnote ⁹
850.1500	Life Cycle Fish	49412101	Bifenthrin Task Force	OWN	See endnote ⁹
850.1710, 850.1730, 850.1850	Aquatic Organisms Bioavailability, Biomagnification, Toxicity	00163094 00163095 42529902 49008201 49008202	U.S. EPA U.S. EPA	OLD OLD OLD PL PL	See endnote ¹⁰
850.1950	Simulated or Actual Field Testing for Aquatic Organisms				Not required
SS-1072	Chronic Sediment <i>Leptocheirus plumulosus</i>	49692801	Bifenthrin Task Force	OWN	
SS-1066	Chronic Sediment <i>Hyaella azteca</i>	49277501	Bifenthrin Task Force	OWN	See endnote ¹¹
SS-1069	Chronic Sediment <i>Chironomus dilutus</i>	49277502	Bifenthrin Task Force	OWN	See endnote ¹²
850.3020	Honey Bee Acute Contact Toxicity	00132538		OLD	See endnote ¹³

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Gruhn Mill Crop Solutions, LLC 701 Fifth Avenue, Suite 6100 Seattle, WA 98104	Bifenthrin Technical MUP				
Ingredient Bifenthrin (CAS No.: 82657-04-3; Chemical Code: 128825)					
850.3030	Honeybee Toxicity of Residues on Foliage	00163104		OLD	See endnote ¹⁴
850.3040	Field Testing for Pollinators				Not required ¹⁵
870.6100	Delayed Neurotoxicity (Acute) – Hen				Not required
870.6200	Acute Neurotoxicity – Rat	44862102		OLD	See endnote ¹⁶
870.3100	90-Day Oral: Rodent	00141199		OLD	See endnote ¹⁷
870.3150	90-Day Oral: Non-Rodent	00141200		OLD	See endnote ¹⁸
870.3200	21/28-Day Dermal Toxicity	00141198 45280501		OLD OLD	See endnote ¹⁹
870.3250	90-Day Dermal Toxicity	48807401	Bifenthrin Task Force	OWN	Waived
870.3465	90-Day Inhalation Toxicity				Not required
870.6100	28-Day Delayed Neurotoxicity Hen				Not required
870.6200	90-Day Neurotoxicity	44862103		OLD	See endnote ¹⁶
870.4100	Chronic Oral Rodent	00157226		OLD	See endnote ²⁰
870.4200	Carcinogenicity	00157226 00157227		OLD OLD	See endnote ²¹
870.3700	Reproduction/Developmental Toxicity Screening Test	00141201 00145997 00154482 45352301		OLD OLD OLD OLD	See endnote ²²
870.3800	2-Generation Reproduction: Rat	00157225		OLD	See endnote ²³
870.6300	Developmental Neurotoxicity Study	46750501	FMC Corporation	PER	See endnote ²⁴
870.5100	Bacterial Reverse Mutation Test	00132524 40383601		OLD OLD	
870.5300, 870.5375	<i>In vitro</i> Mammalian Cell Assay	00141195		OLD	
870.5385, 870.5395, 870.5450; 870.5550	<i>In vivo</i> Cytogenetics and Other Effects	00138109		OLD	
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	Ailis Gregory Regulatory Consultant			3/9/2021	



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Ingredient Bifenthrin (CAS No.: 82657-04-3; Chemical Code: 128825)

		00138111 00141194		OLD OLD	
870.7485	Metabolism and Pharmacokinetics	00163067 00163069 00163070 00163071 40415102		OLD OLD OLD OLD OLD	See endnote ²⁵
870.7200	Companion Animal Safety				Not required
870.7600	Dermal Penetration	00163072 41284202 41917502 41917503		OLD OLD OLD OLD	See endnote ²⁶
870.7800	Immunotoxicity	49108801	Bifenthrin Task Force	OWN	
875.1100	Dermal Exposure – Outdoor		Agricultural Handlers Exposure TF	OWN	See endnote ²⁷
875.1200	Dermal Exposure - Indoor				Not required
875.1300	Inhalation Exposure – Outdoor		Agricultural Handlers Exposure TF	OWN	See endnote ²⁷
875.1400	Inhalation Exposure - Indoor				Not required
875.1500	Biological Monitoring		Agricultural Handlers Exposure TF	OWN	See endnote ²⁷
875.1600	Data Reporting and Calculations		Agricultural Handlers Exposure TF	OWN	See endnote ²⁷
875.1700	Product Use Information				Waived
875.2100	Dislodgeable Foliar Residue and Turf Transferable Residues	44955201		OLD	See endnote ²⁸
875.2200	Soil Residue Dissipation		Agricultural Reentry TF Outdoor Residential Exposure TF	PER PER	See endnote ²⁹
875.2400	Dermal Exposure		Agricultural Reentry TF	PER	See endnote ²⁹

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			Outdoor Residential Exposure TF	PER	
875.2500	Inhalation Exposure		Agricultural Reentry TF	PER	See endnote ²⁹
			Outdoor Residential Exposure TF	PER	
875.2600	Biological Monitoring		Agricultural Reentry TF	PER	See endnote ²⁹
			Outdoor Residential Exposure TF	PER	
875.2700	Product Use Information		Agricultural Reentry TF	PER	See endnote ²⁹
			Outdoor Residential Exposure TF	PER	
875.2800	Descriptions of Human Activity		Agricultural Reentry TF	PER	See endnote ²⁹
			Outdoor Residential Exposure TF	PER	
875.2900	Data Reporting and Calculations		Agricultural Reentry TF	PER	See endnote ²⁹
			Outdoor Residential Exposure TF	PER	
875.3000	Nondietary Ingestion Exposure		Agricultural Reentry TF	PER	See endnote ²⁹
			Outdoor Residential Exposure TF	PER	
201-1	Droplet Size Spectrum		Spray Drift TF	OWN	See endnote ³⁰
202-1	Droplet Size Spectrum		Spray Drift TF	OWN	See endnote ³⁰
850.4100	Tier 1: Seedling Emergence	49138401	Bifenthrin Task Force	OWN	
850.4150	Tier 1: Vegetative Vigor	49138402	Bifenthrin Task Force	OWN	
850.4400, 850.4500	Tier 1: Aquatic Plant Growth	49060101	Bifenthrin Task Force	OWN	
		49098201	Bifenthrin Task Force	OWN	
		49098202	Bifenthrin Task Force	OWN	
		49116101	Bifenthrin Task Force	OWN	
		49134901	Bifenthrin Task Force	OWN	
850.4100	Tier 2: Seedling Emergence	49138401	Bifenthrin Task Force	OWN	
850.4150	Tier 2: Vegetative Vigor	49138402	Bifenthrin Task Force	OWN	

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Applicant's/Registrant's Name & Address Gruhn Mill Crop Solutions, LLC 701 Fifth Avenue, Suite 6100 Seattle, WA 98104		Product Bifenthrin Technical MUP
Ingredient Bifenthrin (CAS No.: 82657-04-3; Chemical Code: 128825)		
850.4400, 850.4500	Tier 2: Aquatic Plant Growth	49060101 Bifenthrin Task Force OWN 49098201 Bifenthrin Task Force OWN 49098202 Bifenthrin Task Force OWN 49116101 Bifenthrin Task Force OWN 49134901 Bifenthrin Task Force OWN
850.4300	Terrestrial Field	Not required
850.4450	Aquatic Field	Not required
850.4025	Target Area Phytotoxicity	Not required
890.1100	Amphibian Metamorphosis (Rat)	48675901 Bifenthrin Task Force OWN See endnote ³¹
890.1150	Androgen Receptor Binding (Rat Prostate)	48615001 Bifenthrin Task Force OWN See endnote ³²
890.1200	Aromatase (Human Recombinant)	48615002 Bifenthrin Task Force OWN See endnote ³³
890.1250	Estrogen Receptor Binding	48615003 Bifenthrin Task Force OWN 48843501 Bifenthrin Task Force OWN See endnote ³⁴
890.1300	Estrogen Receptor Transcriptional Activation Assay	48615004 Bifenthrin Task Force OWN See endnote ³⁵
890.1350	Fish Short-Term Reproduction	48675902 Bifenthrin Task Force OWN See endnote ³⁶
890.1400	Hershberger (Rat)	48615005 Bifenthrin Task Force OWN See endnote ³⁷
890.1450	Female Pubertal (Rat)	48669401 Bifenthrin Task Force OWN See endnote ³⁸
890.1500	Male Pubertal (Rat)	48669401 Bifenthrin Task Force OWN See endnote ³⁹
890.1550	Steroidogenesis	48615006 Bifenthrin Task Force OWN See endnote ⁴⁰
890.1600	Uterotrophic (Rat)	48615007 Bifenthrin Task Force OWN See endnote ⁴¹
835.2120	Hydrolysis	00132539 49138403 Bifenthrin Task Force OLD OWN See endnote ⁴²
835.2240	Photodegradation in Water	00163084 48882501 FMC Corporation OLD PER See endnote ⁴³
835.2410	Photodegradation in Soil	00163085 OLD See endnote ⁴⁴

Signature

Name and Title

Ailis Gregory
Regulatory Consultant

Date

3/9/2021



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Gruhn Mill Crop Solutions, LLC 701 Fifth Avenue, Suite 6100 Seattle, WA 98104	Bifenthrin Technical MUP				
Ingredient Bifenthrin (CAS No.: 82657-04-3; Chemical Code: 128825)					
835.2370	Photodegradation in Air				Not required
835.4100	Aerobic Soil Metabolism	AC073174 AC073225 AC141502 AC251278 AC254401 AC254411 AC264642 AC532540 00132540 00141202 00152266 48882502	FMC Corporation	OLD OLD OLD OLD OLD OLD OLD OLD OLD OLD OLD PER	See endnote ⁴⁵
835.4200	Anaerobic Soil Metabolism	00163088 48882503	FMC Corporation	OLD PER	See endnote ⁴⁶
835.4300	Aerobic Aquatic Metabolism	48882504	FMC Corporation	PER	
835.4400	Anaerobic Aquatic Metabolism	49364001	Bifenthrin Task Force	OWN	
835.1230	Leaching/Adsorption/Desorption	00141203 (AC 254401) 00132541 (AC 251728) 49175401	Bifenthrin Task Force	OLD OLD OWN	See endnote ⁴⁷
835.1410	Volatility – Laboratory	41220601		OLD	See endnote ⁴⁸
835.8100	Volatility – Field				Not required
835.6100	Soil Field Dissipation Study	00163091		OLD	See endnote ⁴⁹

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Ingredient Bifenthrin (CAS No.: 82657-04-3; Chemical Code: 128825)					
		(AC 264642) 41673101 41673102 41673103 42339201 42339203		OLD OLD OLD OLD OLD	
835.6200	Aquatic Sediment Field Dissipation Study	40981803 40981805 40981808 40981812 40981814 40981815 40981816 40981817 40981818 40981819		OLD OLD OLD OLD OLD OLD OLD OLD OLD OLD	See endnote ⁵⁰
835.6300	Forest Field Dissipation Study				Not required
835.6400	Combination and Tank Mixes				Not required
835.7100	Ground Water Monitoring				Not required
850.6100	Environmental Chemistry Methods	42339202 49024201 49168201	Bifenthrin Task Force Bifenthrin Task Force	OLD OWN OWN	
SS-1065	POTW Treatability Study				Not required ⁵¹
SS-1099	Leachability from Treated Wood				Not required ⁵²

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Ingredient Bifenthrin (CAS No.: 82657-04-3; Chemical Code: 128825)				
860.1300	Nature of the Residue: Plants	00163075 40257901 40257902 45794201	OLD OLD OLD OLD	
860.1300	Nature of the Residue: Livestock	00163076 40384402 40384403 40384404 40384405	OLD OLD OLD OLD OLD	
860.1850	Confined Rotational Crops	00163093 42039601	OLD OLD	
860.1340	Residue Analytical Methods	00163078 40257903 40257905 40384407 40384409 40384411 41492608 41858110 42357104 42357105 42733401 42927802 43641801	OLD OLD OLD OLD OLD OLD OLD OLD OLD OLD OLD OLD OLD	See endnote ⁵³

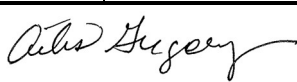
Signature 	Name and Title Ailis Gregory Regulatory Consultant	Date 3/9/2021
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Ingredient Bifenthrin (CAS No.: 82657-04-3; Chemical Code: 128825)					
		44165201 44455501 44455502 45350910 45377301		OLD OLD OLD OLD OLD	
860.1360	Multiresidue Method	40257907 42357101		OLD OLD	See endnote ⁵⁴
860.1380	Storage Stability	00163080 00163081 41858109 41858111 41858112 41894601 42357102 45350911		OLD OLD OLD OLD OLD OLD OLD OLD	
860.1500	Magnitude of the Residue in Plants: artichokes	43844201 49180801	Bifenthrin Task Force	OLD OWN	
860.1500	Magnitude of the Residue in Plants: beets, garden				See root and tuber vegetables
860.1500	Magnitude of the Residue in Plants: brassica vegetables (5A and 5B)	44756301 44756302 44756303 45660301		OLD OLD OLD OLD	
860.1500	Magnitude of the Residue in Plants: caneberries	44875101 49314301	Bifenthrin Task Force	OLD OWN	
860.1500	Magnitude of the Residue in Plants: canola	44774301		OLD	
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Ingredient Bifenthrin (CAS No.: 82657-04-3; Chemical Code: 128825)					
		44774302		OLD	
860.1500	Magnitude of the Residue in Plants: cilantro	46279701	IR-4	PL	
860.1500	Magnitude of the Residue in Plants: citrus	45350902 45350903 45350904 45350905 45350906 45350907 45350908 45350909		OLD OLD OLD OLD OLD OLD OLD OLD	
860.1500	Magnitude of the Residue in Plants: coriander				See cilantro
860.1500	Magnitude of the Residue in Plants: corn	40257908 41858103 41858108 41894602 41804603 44620602 44805701		OLD OLD OLD OLD OLD OLD OLD	See endnote ⁵⁵
860.1500	Magnitude of the Residue in Plants: cotton	00163079 40981810 49241401	Bifenthrin Task Force	OLD OLD OWN	
860.1500	Magnitude of the Residue in Plants: crambe				See canola
860.1500	Magnitude of the Residue in Plants: cucurbits	44056501 44056502 44056503		OLD OLD OLD	

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Ingredient Bifenthrin (CAS No.: 82657-04-3; Chemical Code: 128825)

860.1500	Magnitude of the Residue in Plants: fruiting vegetables	44616901 44870501 44870502 45440401 45605601		OLD OLD OLD OLD OLD	
860.1500	Magnitude of the Residue in Plants: grapes	44859801 45383101 45383102 49180802	Bifenthrin Task Force	OLD OLD OLD OWN	
860.1500	Magnitude of the Residue in Plants: herbs (19A)	45104101 45104102 49341301	Bifenthrin Task Force	OLD OLD OWN	
860.1500	Magnitude of the Residue in Plants: hops	41658501 41658601 49167001	Bifenthrin Task Force	OLD OLD OWN	
860.1500	Magnitude of the Residue in Plants: legume vegetables	44581101 44581102 44746801 45567404 45624701 46098701	IR-4	OLD OLD OLD OLD OLD PL	
860.1500	Magnitude of the Residue in Plants: lettuce	44869601 47144503	IR-4	OLD PL	
860.1500	Magnitude of the Residue in Plants: mayhaw	46960801	IR-4	PL	
860.1500	Magnitude of the Residue in Plants: okra				See fruiting vegetables

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Applicant's/Registrant's Name & Address Gruhn Mill Crop Solutions, LLC 701 Fifth Avenue, Suite 6100 Seattle, WA 98104	Product Bifenthrin Technical MUP	

Ingredient Bifenthrin (CAS No.: 82657-04-3; Chemical Code: 128825)

860.1500	Magnitude of the Residue in Plants: peanut	46960401 46960402 46960403 46960404	IR-4 IR-4 IR-4 IR-4	PL PL PL PL	
860.1500	Magnitude of the Residue in Plants: pear	00151440 41492606 45377302 45377303 45377304		OLD OLD OLD OLD OLD	
860.1500	Magnitude of the Residue in Plants: pistachio	42441302		OLD	
860.1500	Magnitude of the Residue in Plants: radish				See root and tuber vegetables
860.1500	Magnitude of the Residue in Plants: rapeseed				See canola
860.1500	Magnitude of the Residue in Plants: root and tuber vegetables	45794202 46961101 46961102 46961103	IR-4 IR-4 IR-4	OLD PL PL PL	
860.1500	Magnitude of the Residue in Plants: leaves of root and tuber vegetables	45794202 46961101 46961102 46961103	IR-4 IR-4 IR-4	OLD PL PL PL	
860.1500	Magnitude of the Residue in Plants: soybean	46098701	IR-4	PL	
860.1500	Magnitude of the Residue in Plants: spinach	45579801 45579802		OLD OLD	
860.1500	Magnitude of the Residue in Plants: strawberry	00145881 41492607		OLD OLD	

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Applicant's/Registrant's Name & Address

Gruhn Mill Crop Solutions, LLC
701 Fifth Avenue, Suite 6100
Seattle, WA 98104

Product

Bifenthrin Technical MUP

Ingredient Bifenthrin (CAS No.: 82657-04-3; Chemical Code: 128825)

		42515602		OLD	
860.1500	Magnitude of the Residue in Plants: tobacco	46045001	FMC Corporation	PER	
860.1500	Magnitude of the Residue in Plants: tree nuts	00151439 00162835 00162836 41492603 41492604 42441301 42515603 45377305		OLD OLD OLD OLD OLD OLD OLD OLD	
860.1500	Magnitude of the Residue in Plants: tuberous and corm vegetables				See root and tuber vegetables
860.1500	Magnitude of the Residue in Plants: turnip greens				See leaves of root and tuber vegetables
860.1520	Magnitude of the Residue in Processed Food or Feed: canola	44774301 44774302		OLD OLD	
860.1520	Magnitude of the Residue in Processed Food or Feed: citrus	45350902 45350903 45350904 45350905 45350907 45350909		OLD OLD OLD OLD OLD OLD	
860.1520	Magnitude of the Residue in Processed Food or Feed: corn	40257908 41858103 41858108		OLD OLD OLD	See endnote ⁵⁶

Signature

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Ingredient Bifenthrin (CAS No.: 82657-04-3; Chemical Code: 128825)					
		41894602 41804603 44620602 44805701		OLD OLD OLD OLD	
860.1520	Magnitude of the Residue in Processed Food or Feed: cotton	00163079 40981810 49241401	Bifenthrin Task Force	OLD OLD OWN	
860.1520	Magnitude of the Residue in Processed Food or Feed: fruiting vegetables	45440401 45605601		OLD OLD	
860.1520	Magnitude of the Residue in Processed Food or Feed: raisins	44859801 45383101 45383102 49180802	Bifenthrin Task Force	OLD OLD OLD OWN	
860.1520	Magnitude of the Residue in Processed Food or Feed: peanuts	46960401 46960402 46960403 46960404	IR-4 IR-4 IR-4 IR-4	PL PL PL PL	
860.1520	Magnitude of the Residue in Processed Food or Feed: root and tuber vegetables	45794202		OLD	
860.1520	Magnitude of the Residue in Processed Food or Feed: soybeans	46098701	IR-4	PL	
860.1480	Magnitude of the Residue in Meat, Milk, Poultry, and Eggs	40257910 40257911 40384401 40384406 40384408		OLD OLD OLD OLD OLD	
Signature 		Name and Title Ailis Gregory Regulatory Consultant		Date 3/9/2021	



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Ingredient Bifenthrin (CAS No.: 82657-04-3; Chemical Code: 128825)		
	40384410	OLD
860.1400	Nature and Magnitude of the Residue in Potable Water	Not required ⁵⁷
860.1400	Magnitude of the Residue in Fish	Not required
860.1400	Magnitude of the Residue in Plants Resulting from the Use of Irrigation Water	Not required
860.1460	Magnitude of the Residue in Food Handling Establishments	Not required
860.1900	Field Rotational Crops	OLD

Signature 	Name and Title Ailis Gregory Regulatory Consultant	Date 3/9/2021
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Data Matrix Endnotes for Bifenthrin Technical MUP

¹ **850.2100** – MRID number 00132532 and 00132534 are acceptable and partially satisfy the data requirement as per the June 9, 2010 EFED Registration Review Problem Formulation for Bifenthrin (DP D370920) (Problem Formulation). As per the Jan. 12, 2012 Generic Data Call-In for Bifenthrin (GDCI-128825-902) (2012 GDCI), additional data were required on a passerine species. MRID 49163801 was submitted to satisfy this data gap.

² **850.2200** – The studies cited are acceptable and satisfy the data requirement as per the Problem Formulation.

³ **850.2300** – The studies cited are acceptable and satisfy the data requirement as per the Problem Formulation. It appears the incorrect accession number was referenced in the Problem Formulation for the mallard duck study. The correct MRID and accession number have been cited here.

⁴ **850.1075** – The studies cited are acceptable or supplemental but satisfy the data requirement as per the Problem Formulation and the Sept. 30, 2016 Preliminary Comparative Environmental Fate and Ecological Risk Assessment for the Registration Review of Eight Synthetic Pyrethroids and the Pyrethrins (D425791, D429461, D433338, D433339, D435888) (EFED Risk Assessment).

⁵ **850.1010** – MRID 41156501 was identified in the Problem Formulation to be acceptable and satisfy the data requirement. However, this MRID corresponds to a chronic invertebrate life cycle study; therefore, MRID 00132537, an acute study is also cited, which was identified as acceptable in the EFED Risk Assessment.

⁶ **850.1025, 850.1035, 850.1045, 850.1055, 850.1075** – The studies cited are acceptable or supplemental but satisfy the data requirement as per the EFED Risk Assessment.

⁷ **850.1300** – The study cited is acceptable and satisfies the data requirement as per the EFED Risk Assessment.

⁸ **850.1350** – The study cited is supplemental as per the EFED Risk Assessment however no additional data are required.

⁹ **850.1400, 850.1500** – The Problem Formulation identified MRID 40791301 as invalid and required a new Early Life Stage study, stating that a saltwater study could satisfy both freshwater and saltwater requirements (as well as any life cycle requirements). The study cited was considered acceptable and satisfies the data requirement as per the EFED Risk Assessment.

¹⁰ **850.1710, 850.1730, 850.1850** – The studies cited are supplemental as per the EFED Risk Assessment however no additional data have been required.

¹¹ **SS-1066** – The study cited is acceptable and satisfies the data requirement as per the EFED Risk Assessment.

¹² **SS-1069** – The study cited is acceptable and satisfies the data requirement as per the EFED Risk Assessment.

¹³ **850.3020** – The study cited is acceptable and satisfies the data requirement as per the EFED Risk Assessment and the Problem Formulation.

¹⁴ **850.3030** – The study cited is acceptable and satisfies the data requirement as per the EFED Risk Assessment and the Problem Formulation.

¹⁵ **850.3040** – These data are not required as per the Problem Formulation.

¹⁶ **870.6200** – The study cited is listed in the EPA HED Chapter for the Bifenthrin TRED Sept. 4, 2002 (D283796) as satisfying the data requirement (Sept. 4, 2002 HED memo). This is also reiterated in May 17, 2011 Toxicological Data Needs Update: Bifenthrin Human Health Assessment Scoping Document in Support of Registration Review (DP D389066) (Scoping Document).

¹⁷ **870.3100** – The study cited is acceptable and satisfies the data requirement as per the Scoping Document.

¹⁸ **870.3150** – The study cited is acceptable and satisfies the data requirement as per the Scoping Document.

¹⁹ **870.3200** – The studies cited are acceptable and satisfy the data requirement as per the Scoping Document.

²⁰ **870.4100** – The study cited is acceptable and satisfies the data requirement as per the Scoping Document.

²¹ **870.4200** – The studies cited are acceptable and satisfy the data requirement as per the Scoping Document.

²² **870.3700** – The studies cited are acceptable and satisfy the data requirement as per the Scoping Document.

²³ **870.3800** – The study cited is acceptable and satisfies the data requirement as per the Scoping Document.

Data Matrix Endnotes for Bifenthrin Technical MUP

²⁴ **870.6300** – The study cited is listed in an April 2, 2008 HED memo (D379758) as being acceptable and fully satisfying the data requirement.

²⁵ **870.7485** – The studies cited are listed in the Sept. 4, 2002 HED memo as being acceptable and satisfying the data requirement.

²⁶ **870.7600** – The studies cited are listed in the Sept. 4, 2002 HED memo as being acceptable and satisfying the data requirement when all taken in conjunction with one another.

²⁷ **875.1100, 875.1300, 875.1400, 875.1500, 875.1600, 875.1600** – Gruhn Mill Crop Solutions, LLC is a member in good standing with the Agricultural Handlers Exposure Task Force.

²⁸ **875.2100** – The study cited is listed in the Sept. 4, 2002 HED memo as being acceptable and satisfying the data requirement.

²⁹ **875.2200, 875.2300, 875.2400, 875.2500, 875.2600, 875.2700, 875.2800, 875.2900, 875.3000** – Gruhn Mill Crop Solutions has permission to cite data submitted by the Agricultural Reentry Task Force and the Outdoor Residential Exposure Task Force.

³⁰ **201-1, 202-1** – Gruhn Mill Crop Solutions is a member in good standing with the Spray Drift Task Force.

³¹ **890.1100** – The study cited is acceptable and satisfies the data requirement as per the June 29, 2015 Bifenthrin: Data Evaluation Records (DERs) for EDSP Assays (EDSP DERs).

³² **890.1150** – The study cited is acceptable and satisfies the data requirement as per the EDSP DERs.

³³ **890.1200** – The study cited is acceptable and satisfies the data requirement as per the EDSP DERs.

³⁴ **890.1250** – The studies cited are acceptable and satisfy the data requirement as per the EDSP DERs.

³⁵ **890.1300** – The study cited is acceptable and satisfies the data requirement as per the EDSP DERs.

³⁶ **890.1350** – The study cited is acceptable and satisfies the data requirement as per the EDSP DERs.

³⁷ **890.1400** – The study cited is acceptable and satisfies the data requirement as per the EDSP DERs.

³⁸ **890.1450** – The study cited is acceptable and satisfies the data requirement as per the EDSP DERs.

³⁹ **890.1500** – The study cited is acceptable and satisfies the data requirement as per the EDSP DERs.

⁴⁰ **890.1550** – The study cited is acceptable and satisfies the data requirement as per the EDSP DERs.

⁴¹ **890.1600** – The study cited is acceptable and satisfies the data requirement as per the EDSP DERs.

⁴² **835.2120** – The studies cited are acceptable and satisfy the data requirement as per the EFED Risk Assessment.

⁴³ **835.2240** – The studies cited are supplemental but satisfy the data requirement as per the EFED Risk Assessment.

⁴⁴ **835.2410** – The study cited is acceptable and satisfies the data requirement as per the EFED Risk Assessment.

⁴⁵ **835.4100** – The studies cited are acceptable or supplemental but satisfy the data requirement as per the EFED Risk Assessment.

⁴⁶ **835.4200** – The studies cited are acceptable or supplemental but satisfy the data requirement as per the EFED Risk Assessment.

⁴⁷ **835.1230** – The studies cited are supplemental but satisfy the data requirement as per the EFED Risk Assessment.

⁴⁸ **835.1410** – The study cited is supplemental but satisfies the data requirement as per the EFED Risk Assessment.

⁴⁹ **835.6200** – The studies cited are acceptable and satisfy the data requirement as per the EFED Risk Assessment. Note: MRID 42334167 is not cited as it does not appear to correspond to a citation in NPIRS and MRID 41671302 has been revised to the correct MRID citation of 41673102.

⁵⁰ **835.6200** – The studies cited are supplemental but satisfy the data requirement as per the EFED Risk Assessment.

⁵¹ **SS-1065** – EPA required the submission of these data to address EPA's "down the drain" module. However, Gruhn Mill's product is not registered for indoor residential uses (other bifenthrin products are registered for indoor uses). Therefore, these data are not required for Gruhn Mill's registration.

Data Matrix Endnotes for Bifenthrin Technical MUP

⁵² **SS-1099** – EPA required the submission of these data for wood treatment uses. However, Gruhn Mill's product is not registered for wood treatment uses (other bifenthrin products are registered for indoor uses). Therefore, these data are not required for Gruhn Mill's registration.

⁵³ **860.1340** – The data cited are considered acceptable and no additional data are required as per an EPA memo dated Oct. 17, 2002 in support of the TRED for bifenthrin (D286230). 45377301 and 45350910 were cited to support use on citrus and tree nuts, respectively.

⁵⁴ **860.1360** – The data cited are considered acceptable and no additional data are required as per an EPA memo dated Oct. 17, 2002 in support of the TRED for bifenthrin (D286230).

⁵⁵ **860.1500** – The data cited are considered acceptable and no additional data are required as per an EPA memo dated Oct. 17, 2002 in support of the TRED for bifenthrin (D286230).

⁵⁶ **860.1520** – The data cited are considered acceptable and no additional data are required as per an EPA memo dated Oct. 17, 2002 in support of the TRED for bifenthrin (D286230).

⁵⁷ **860.1400** – These data are not required as per an EPA memo dated Oct. 17, 2002.